



JOHN DEERE

Product Services Information

INSTALLATION INSTRUCTIONS

(Includes English, French, German, Spanish and Italian)



JOHN DEERE

INDEPENDENT FRONT HITCH

Parts in Kit

Qty.	Description
1	Hitch Mounting Bracket
1	Hitch Assembly
1	Hose Guide, Large
1	Hose Guide, Small
1	Steering Stop, Left
1	Steering Stop, Right
2	Hydraulic Hose Extension
2	Quick-Connect Adapter
1	Drilled Pin
1	Cotter Pin
1	Support Shaft
3	Locking Ring
1	Bolt, M8x20 (4100, 4110, 4115)
1	Bolt, M10x35 (4010)
1	Bolt, M12x45 (2320)
1	Bolt, M8x45 (2520)
1	Bolt, M8x30
1	Washer, M8 (2520)
1	Spacer (2520)
1	Locknut, M8
1	Tie Strap

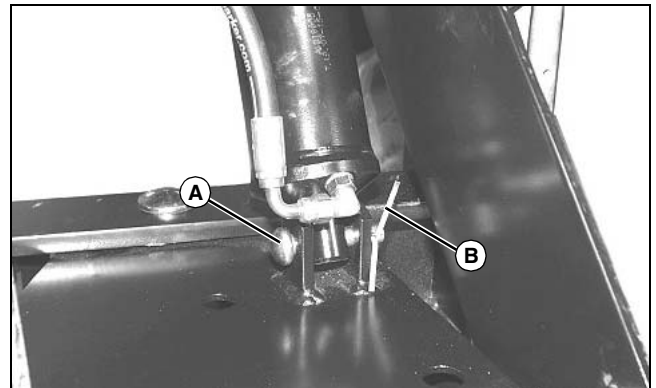
3. Lower attachments to the ground.
4. Lock park brake.
5. Stop engine.
6. Remove key.
7. Wait for engine and all moving parts to stop before you leave the operator's station.
8. Close fuel shut-off valve, if your machine is equipped.
9. Disconnect the negative (-) battery cable before servicing the machine.

Prepare Machine

1. Install Front Attaching Support Kit (4100, 4010, 4110, 4115, 2320, 2520) or a hood guard (4100, 4010, 4110, 4115 only).

Assemble Hitch

NOTE: If attaching a blade or broom to this hitch, a **Front Hitch Angling Kit** must be installed on this hitch.



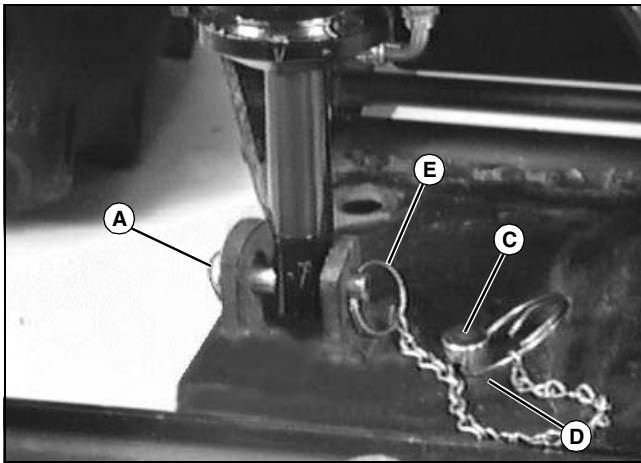
MX36099

1. Secure rod of lift cylinder to hitch using drilled pin (A) and cotter pin (B).

Parking Safely

1. Stop machine on a level surface, not on a slope.
2. Disengage PTO and stop attachments.

Snowthrower and Snowblower Users



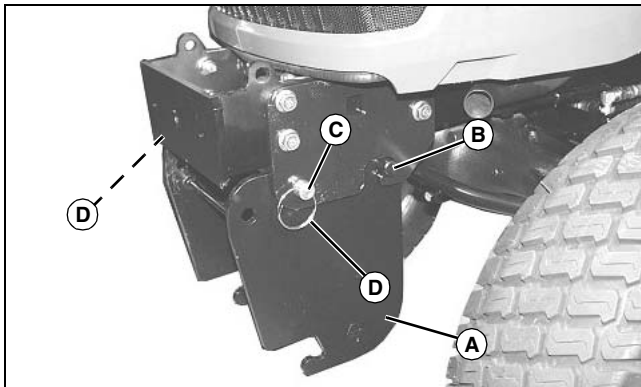
M93247

1. Remove the large spring locking pin and the drilled pin (C) and chain assembly from the snowthrower or snowblower bag of parts.
2. Install drilled pin (C) end of the chain assembly into hole (D) on hitch. This prevents hitch from pivoting from side to side. Fasten with large spring locking pin from under hitch.
3. Secure rod end of lift cylinder to hitch using drilled pin (A) and small locking ring (E) on chain assembly.

Installing Hitch

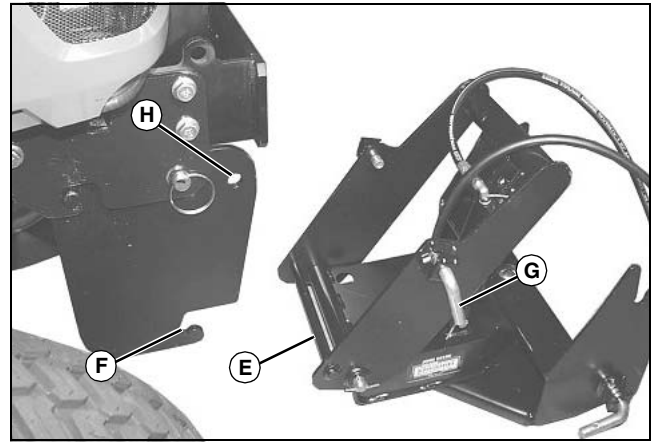
Install Mounting Bracket and Hitch

1. Park machine safely.



MX36100

2. Install hitch mounting bracket (A) inside attachment plates:
 - Put rod ends (B) into notch on attaching plates.
 - Raise mounting bracket to align holes with the attaching plates. Secure using support shaft (C) and two locking rings (D).
3. Install front hitch:

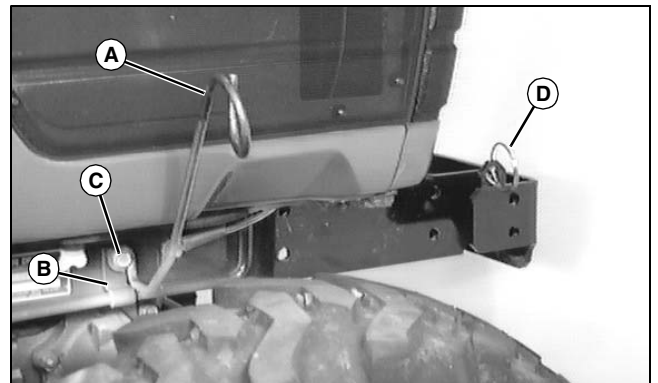


MX36101

- Put rod (E) in notch (F) on each side of hitch mounting bracket.
- Lift hitch and lock mounting pins (G) in holes (H).

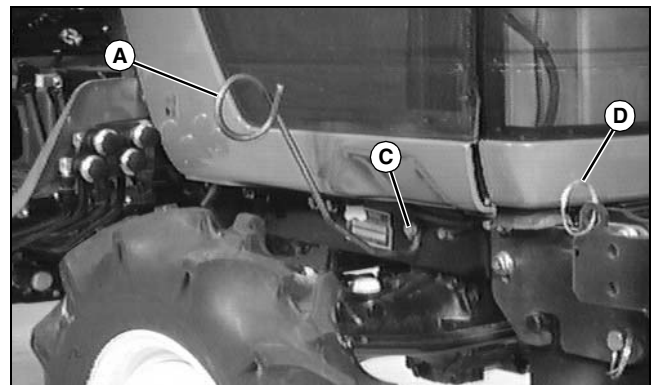
Connect Hydraulic Hoses (4100, 4010, 4110, 4115)

1. Install hose guide and locking ring:



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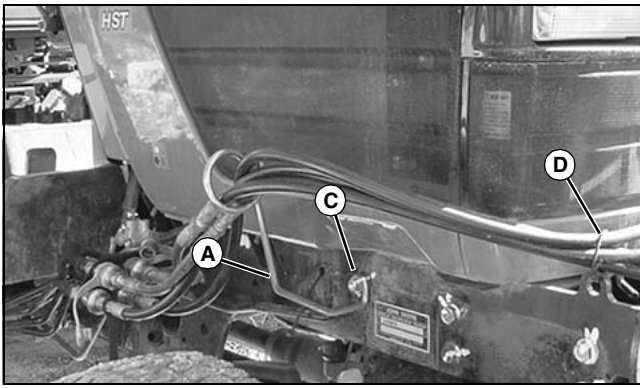
- Units with hydrostatic transmissions: Remove bolt fastening oil line bracket on right side frame rail. Secure hose guide (A) and oil line bracket (B) with new M8x20 bolt (C). Install locking ring (D) in hole in tab at top of front weight bracket.



M93245

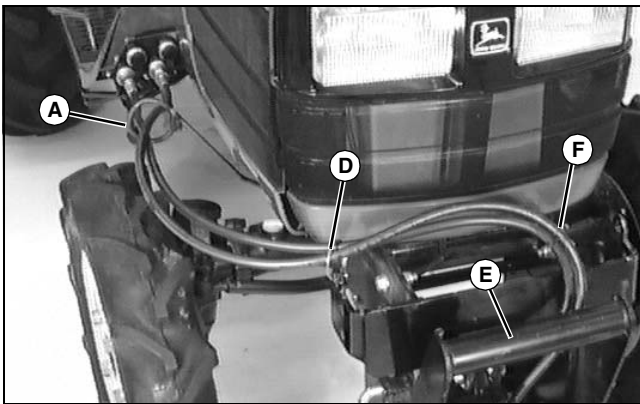
- Units with gear transmissions: Install large hose guide (A) in upper hole on right side frame rail with M8x20 bolt (C). Install locking ring (D) in hole in tab at

top of front weight bracket.



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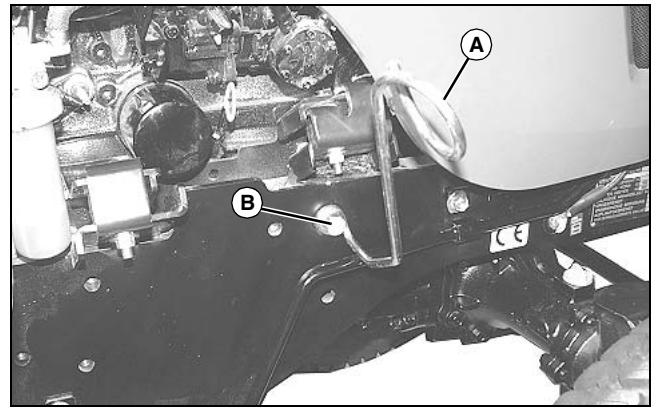
- 4010 Models: Remove and discard bolt fastening oil line bracket on right side frame rail. Secure hose guide (A) and oil line bracket with M10x35 bolt (C). Install locking ring (D) in hole in tab at top of front weight bracket.



M93251

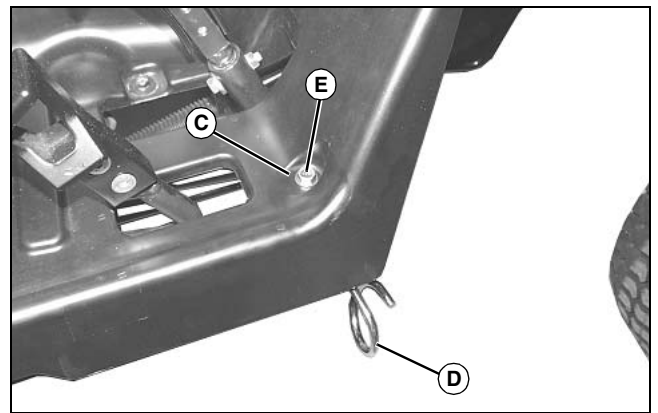
2. Route hoses behind hitch support (E), through locking ring (D) and hose guide (A) to hydraulic couplers.
3. Match and connect the color coded hose connectors with color coded hydraulic couplers.
4. Put dust cap ends together to keep ends clean.
5. Secure hoses together with tie strap (F) so hoses do not contact front grill.

Connect Hydraulic Hoses (2320)



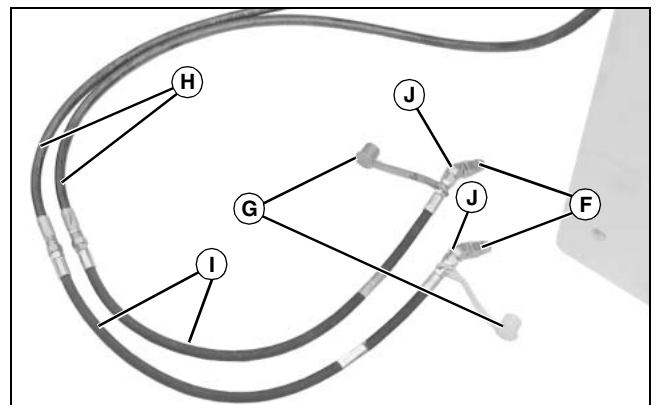
MX36183

1. Install large hose guide (A) on right side frame rail with M12x45 bolt (B).



MX36184

2. Drill 9 mm (11/32 in.) hole (C) into center of recessed area on right side of fender deck.
3. Install small hose guide (D) with M8x30 bolt (E) and M8 locknut.



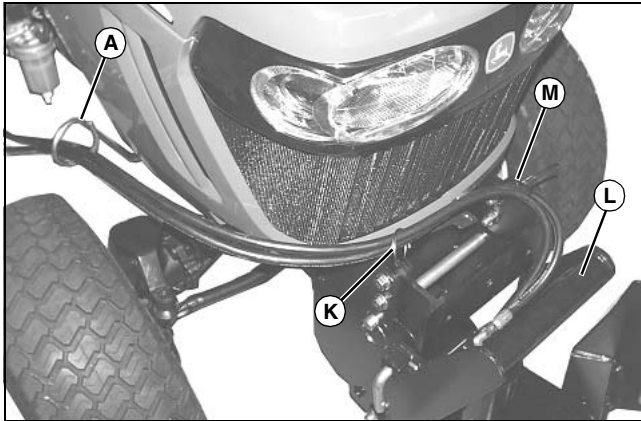
MX15699

4. Remove and retain quick-connect adapters (F) and existing dust caps (G) from the end of both hydraulic attachment hoses (H).

NOTE: When tightening hydraulic hose extensions (I), hold hydraulic attachment hoses (H) horizontally, side-by-side, and orient 45° fittings (J) so that they point toward the ground. This will prevent unwanted twisting of hoses when installing attachment on machine.

5. Install hydraulic hose extensions (I) on both attachment hydraulic hoses (H), and install quick-connect adapters (F) onto the 45° fittings (J).

6. Install dust caps (G) onto the ends of the hydraulic hose extensions.

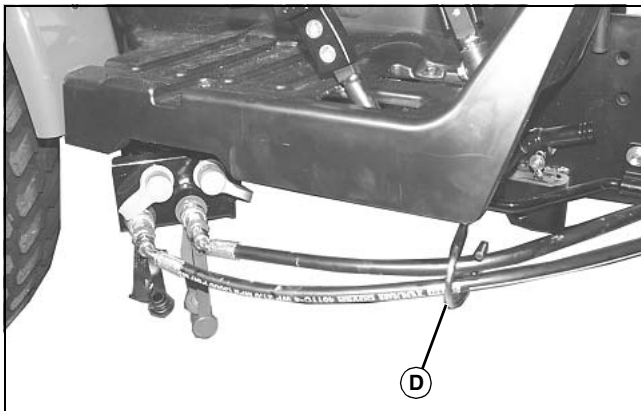


MX36187

7. Install locking ring (K) in hole in tab at top of front weight bracket.

8. Route hoses behind hitch support (L), through locking ring (K) and large hose guide (A).

9. Secure hoses together with tie strap (M) so hoses do not contact front grill.



MX36190

10. Route hoses through small hose guide (D) to hydraulic couplers.

11. Match and connect the color coded hose connectors with color coded hydraulic couplers.

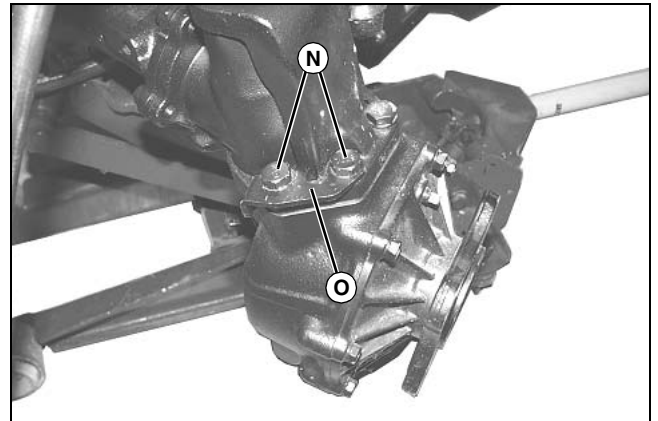
12. Put dust cap ends together to keep ends clean.



CAUTION: Avoid injury! The machine can fall or slip from an unsafe lifting device or supports.

- Use a safe lifting device rated for the load to be lifted.
- Lower machine onto jack stands or other stable supports and block wheels before servicing.

13. Raise front of machine, and remove two front wheels.

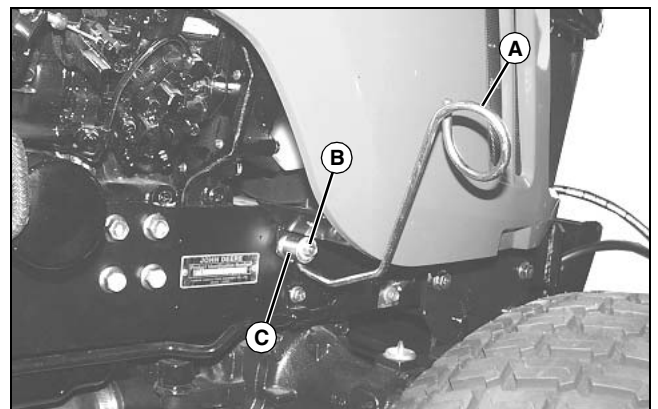


MX36189

14. Remove and retain two M10 bolts (N) from rear side of front axle, and discard lockwashers. Install right (O) steering stop, as shown. Secure with two M10 bolts just removed. Tighten bolts to 80 N•m (59 lb-ft). Repeat for opposite side of machine.

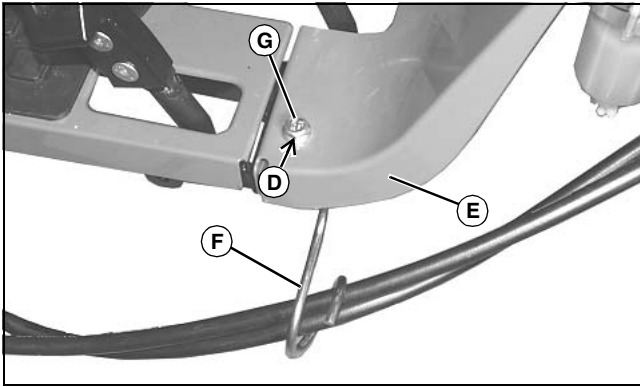
15. Install wheels and tighten wheel bolts to 115 N•m (85 lb-ft). Lower machine.

Connect Hydraulic Hoses (2520)



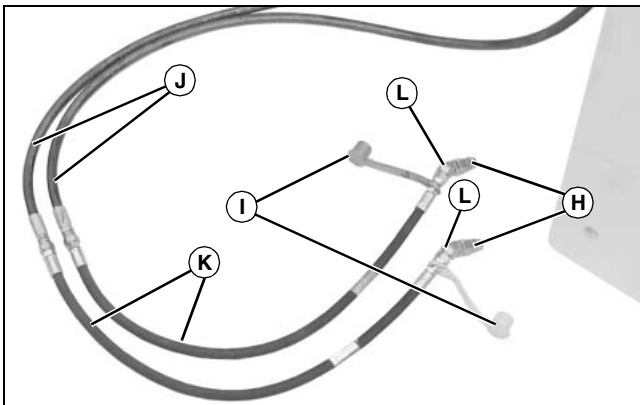
MX36186

1. Remove existing bolt, and install large hose guide (A) with new M8x45 bolt (B), washer, and spacer (C).



MX36092

2. Measure approximately 25 mm (1 in.) (D) on flat surface on outside edge of fender deck (E), and drill 9 mm (11/32 in.) hole into fender deck.
3. Install small hose guide (F) onto fender deck with M8x30 bolt (G) and M8 locknut.

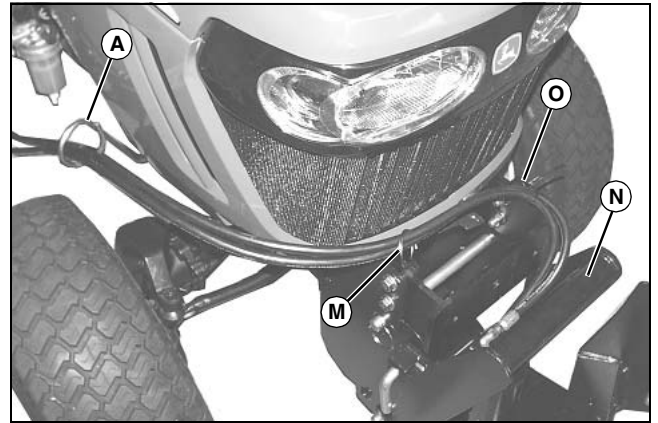


MX15699

4. Remove and retain quick-connect adapters (H) and existing dust caps (I) from the end of both hydraulic attachment hoses (J).

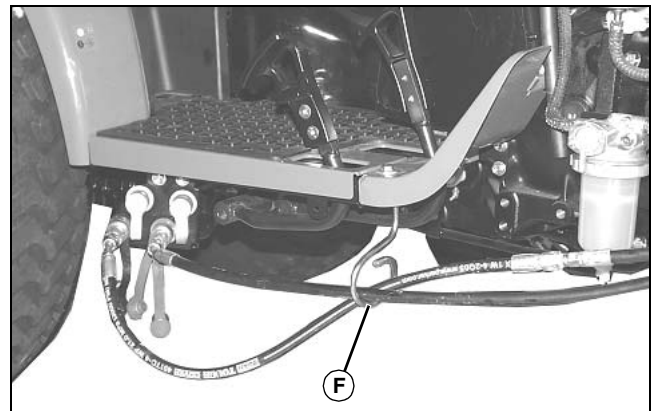
NOTE: When tightening hydraulic hose extensions (K), hold hydraulic attachment hoses (J) horizontally, side-by-side, and orient 45° fittings (L) so that they point toward the ground. This will prevent unwanted twisting of hoses when installing attachment on machine.

5. Install hydraulic hose extensions (K) on both attachment hydraulic hoses (J), and install quick-connect adapters (H) onto the 45° fittings (L).
6. Install dust caps (I) onto the ends of the hydraulic hose extensions.



MX36187

7. Install locking ring (M) in hole in tab at top of front weight bracket.
8. Route hoses behind hitch support (N), through locking ring (M) and large hose guide (A).
9. Secure hoses together with tie strap (O) so hoses do not contact front grill.



MX36188

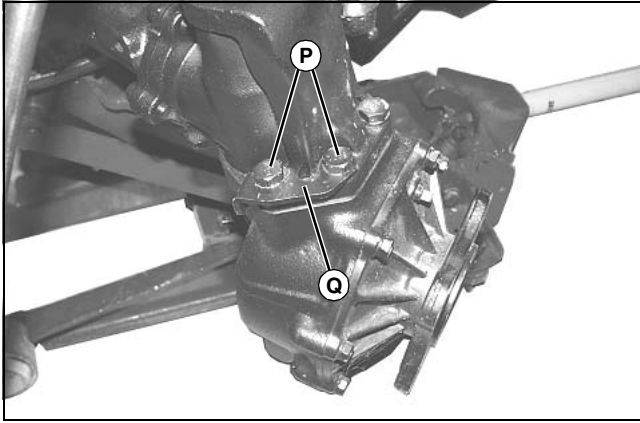
10. Route hoses through small hose guide (F) to hydraulic couplers.
11. Match and connect the color coded hose connectors with color coded hydraulic couplers.
12. Put dust cap ends together to keep ends clean.



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- Use a safe lifting device rated for the load to be lifted.
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13. Raise front of machine, and remove two front wheels.



MX36189

14. Remove and retain two M10 bolts (P) from rear side of front axle, and discard lockwashers. Install right (Q) steering stop, as shown. Secure with two M10 bolts just removed. Tighten bolts to 80 N•m (59 lb-ft). Repeat for opposite side of machine.

15. Install wheels and tighten wheel bolts to 115 N•m (85 lb-ft). Lower machine.

Removing Hitch



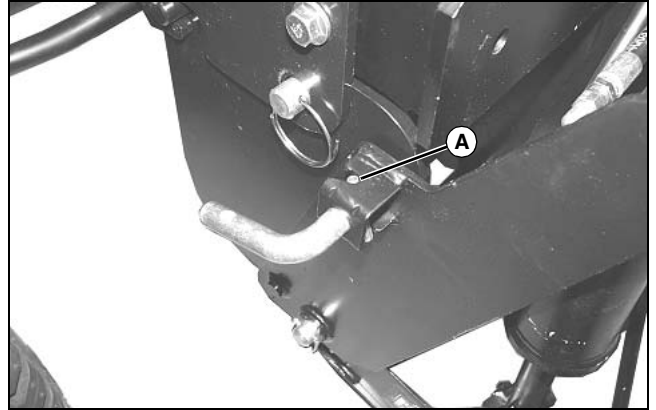
CAUTION: Avoid injury! Escaping fluid under high pressure can penetrate the skin and cause serious injury. Avoid the hazard by relieving pressure before connecting hydraulic or other lines. Tighten all connections before applying pressure.

- Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.
- If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A. In the United States and Canada only, this information may be obtained by calling 1-800-822-8262.

1. Stop machine on a level surface, not on a slope.
2. Disengage PTO and stop attachments.
3. Fully raise hitch.
4. Lock park brake.
5. Stop engine.
6. Remove key.

7. Wait for engine and all moving parts to stop before you leave the operator's station.

8. Disconnect hydraulic lines. Put dust plugs on connectors to prevent dirt from entering hydraulic system.



MX36191

9. Pull mounting pins out and lock roll pin in notch (A).

10. Lift and remove hitch from tractor.

11. Remove front hitch bracket.

Operating Hitch

Review instructions on using hydraulic dual selective control valve (SCV) and dual SCV lock lever included in your tractor operator's manual.